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United States
Department of
Agriculture

Agricultural Marketing Service

Volume 13, No. 2 April-June 1985

Plant Variety Protection Office Official Journal







PREFACE

The Plant Variety Protection Act (7 U.S.C., 2321 et seq.) authorizes the Secretary of Agriculture to publish an Official Journal to provide the public with information relating to the operations of the Plant Variety Protection Office. The statute also authorizes the Secretary to disseminate technological and other information that encourages innovation and progress in plant breeding.

The Official Journal, published quarterly, is available from:

Plant Variety Protection Office Agricultural Marketing Service U.S. Department of Agriculture National Agricultural Library Bldg., Rm. 500 Beltsville, Maryland 20705

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Applications for protection have been filed for the following varieties, each application has been assigned an	application number and will be examined to determine whether the variety is entitled to a certificate of protection. Seed of these varieties may be labeled "Unauthorized Propagation Prohibited - U.S. Variety Protection Applied For."	
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have been filed for the f	be examined to determine varieties may be labeled	
Applications for protection	application number and will protection. Seed of these Protection Applied For."	

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 > Identifies temporary designations.

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APPL.	VARIETY	GEN. APPL. (*) DATE	NAME OF APPLICANT
BLUEGRASS, KENTUCKY 8500113 Able I	ENTUCKY Able I	04/23/85	04/23/85 Pure-Seed Testing, Inc.
CAULIFLOWER 8500151	<sg 111=""></sg>	05/06/85	05/06/85 Sluis & Groot of America, Inc.
CORN, FIELD 8500098	<0381>	04/01/85	04/01/85 Quality Research Associates
8500123	<18014>	04/26/85	DeKalb-Pfizer Genetics
8500124 <ibi6></ibi6>	<1816>	04/26/85	04/26/85 DeKalb-Pfizer Genetics
8500125	<78004>	04/26/85	DeKalb-Pfizer Genetics
8500126 <78010>	<78010>	04/26/85	04/26/85 DeKalb-Pfizer Genetics
8500127	<mbna></mbna>	04/26/85	DeKalb-Pfizer Genetics
8500152 683	683	05/21/85	05/21/85 Pioneer Hi-Bred International, Inc.
8500153 LH150	LH150	05/22/85	05/22/85 Holden's Foundation Seeds, Inc.

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1										
NAME OF APPLICANT	04/15/85 Delta and Pine Land Company	05/28/85 Terra Seed Company	05/28/85 Terra Seed Company	05/29/85 Stoneville Pedigreed Seed Company, Inc.	Pure-Seed Testing, Inc.	05/10/85 International Seeds, Inc.	05/29/85 The O. M. Scott & Sons Company	Bruce Church, Inc.	(2) 06/10/85 Oregon Agriculture Experiment Station	
APPL. DATE	04/15/85	05/28/85	05/28/85	05/29/85	04/01/85	05/10/85	05/29/85	04/01/85	06/10/85	
GEN.									(2)	
VARIETY	ON 8500110 Deltapine 20	8500154 Terra C-40	8500155 Terra C-30	8500162 Stoneville 112	Bonanza	Willamette	8500161 Chesapeake	<exp 3518=""></exp>	Mermaid	
APPL.	COTTON 8500110	8500154	8500155	8500162	FESCUE, TALL 8500100 Bonanza	8500150	8500161	LETTUCE 8500102	MEADOWFOAM 8500166	

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APPL. NO.	VARIETY GE	GEN. APPL. (*) DATE	APPL. DATE	NAME OF APPLICANT
8500099	Consort (3	(3) 0	14/01/85	(3) 04/01/85 Hurst, Gunson, Cooper, Taber, Ltd., U.K.
8500101	Alpine	0	04/05/85	Sunseeds, A Division of Agrigenetics
8500128	Snappy	0	04/29/85	W. Atlee Burpee Co.
8500130	Goya	0	04/30/85	Asgrow Seed Co.
8500131	Utrillo	0	04/30/85	Asgrow Seed Co.
8500132	Saber	0	04/30/85	Asgrow Seed Co.
8500133	<xp-f174></xp-f174>	0	04/30/85	Asgrow Seed Co.
8500134	Citadel	0	04/30/85	Asgrow Seed Co.
8500163	Mendota	0	05/30/85	Sunseeds, A Division of Agrigenetics
RADISH 8500129	Plum Purple (1	(1) 0	14/25/85	(1) 04/25/85 Alf. Christianson Seed Co.

APRIL 1, 1985 TO JUNE 30, 1985

Applications application protection. Protection	Applications for protection have been filed for the following varieties, each application has been assign application number and will be examined to determine whether the variety is entitled to a certificate of protection. Seed of these varieties may be labeled "Unauthorized Propagation Prohibited - U.S. Variety Protection Applied For."	follo whet "Unau	wing varie her the va uthorized	Applications for protection have been filed for the following varieties, each application has been assigned an application number and will be examined to determine whether the variety is entitled to a certificate of protection. Seed of these varieties may be labeled "Unauthorized Propagation Prohibited - U.S. Variety Protection Applied For."
APPL. NO.	VARIETY	GEN.	APPL. DATE	NAME OF APPLICANT
RAPE 8500114	Global	(3)	(3) 04/26/85	Svalof AB, Sweden
8500115 Topas	Topas	(3)	(3) 04/26/85	Svalof AB, Sweden
8500171	8500171 Cascade	(2)	06/18/85	(2) 06/18/85 Dick L. Auld
8500172	8500172 Bridger	(2)	(2) 06/18/85	Dick L. Auld
RYEGRASS, PERENNIAL 8500111 Urbana	RASS, PERENNIAL 8500111 Urbana		04/17/85	04/17/85 D.J. van der Have B. V., Neth.
S ESAME 8500167	ME 8500167 Sesaco 2A		06/10/85	06/10/85 Sesaco Corporation
8500168	8500168 Sesaco 3		06/10/85	06/10/85 Sesaco Corporation
8500169	8500169 Sesaco 4		06/10/85	06/10/85 Sesaco Corporation
8500170	8500170 Sesaco 7		06/10/85	Sesaco Corporation

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APPLICATIONS RECEIVED

Applications for protection have been filed for the following varieties, each application has been assigned an application number and will be examined to determine whether the variety is entitled to a certificate of protection. Seed of these varieties may be labeled "Unauthorized Propagation Prohibited - U.S. Variety APRIL 1, 1985 TO JUNE 30, 1985 Protection Applied For."

NAME OF APPLICANT

GEN. APPL.

8500116

APPL. . N 8500117

8500118 8500119 8500120

	(*) DATE		
B335	04/26/85	04/26/85 Northrup King Co.	
527-10	04/26/85	04/26/85 Northrup King Co.	
839-99	04/26/85	04/26/85 Northrup King Co.	
842-30	04/26/85	04/26/85 Northrup King Co.	
\$15-50	04/26/85	04/26/85 Northrup King Co.	
8095	04/26/85	04/26/85 Northrup King Co.	
524-24	04/26/85	04/26/85 Northrup King Co.	
L1771	05/06/85	05/06/85 Land O' Lakes, Inc.	
L2330	05/06/85	05/06/85 Land O' Lakes, Inc.	
9531	05/06/85	05/06/85 Pioneer Hi-Bred International, Inc.	

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8500121

8500140 8500141 8500142

8500122

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APPLICATIONS RECEIVED APRIL 1, 1985 TO JUNE 30, 1985

Applications for protection have been filed for the following varieties, each application has been assigned an application number and will be examined to determine whether the variety is entitled to a certificate of protection. Seed of these varieties may be labeled "Unauthorized Propagation Prohibited - U.S. Variety

	GEN. APPL. NAME (*) DATE	NAME OF APPLICANT	
EEAN 8500143 9591	05/06/85 Pionee	Pioneer Hi-Bred International, Inc.	Inc
8500144 9061	05/06/85 Pionee	Pioneer Hi-Bred International,	Inc.
8500145 9691	05/06/85 Pionee	Pioneer Hi-Bred International,	Inc.
8500146 9791	05/06/85 Pionee	Pioneer Hi-Bred International,	Inc.
8500147 9541	05/06/85 Pionee	Pioneer Hi-Bred International, Inc.	Inc
8500156 A1525	05/29/85 Asgrow	Asgrow Seed Co.	
8500157 A1214	05/29/85 Asgrow	Asgrow Seed Co.	
8500158 A1895	05/29/85 Asgrow	Asgrow Seed Co.	
8500159 A3427	05/29/85 Asgrow	Asgrow Seed Co.	
8500160 A3803	05/29/85 Asgrow	Asgrow Seed Co.	

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NO.	GEN.	GEN. APPL. (*) DATE	NAME OF APPLICANT
EAN 8500173 J-231		06/25/85	06/25/85 Jacques Seed Company
WATERMELON 8500103 Charlee		04/08/85	Florida Agricultural Experiment Station
8500148 Yellow Crimson	son	05/10/85	05/10/85 Coffey Seed Co.
WHEAT, COMMON 8500105 Norak		04/12/85	Rohm and Haas Seeds, Inc.
8500106 Rodeo		04/12/85	Rohm and Haas Seeds, Inc.
8500107 Pony		04/12/85	Rohm and Haas Seeds, Inc.
8500108 Leif		04/12/85	Rohm and Haas Seeds, Inc.
8500109 Bighorn		04/12/85	Rohm and Haas Seeds, Inc.
8500112 2551		04/23/85	04/23/85 Pioneer Hi-Bred International, Inc.

¹¹

NAME OF OWNER	(3) 05/31/85 Wilbur-Ellis Company	Poco' most closely resembles 'California Mariout'; however, 'Poco' is 11 days earlier from seedir 00% heading and averages 66 cm shorter in plant height than 'California Mariout'.
ISSUE	05/31/85	'; however eight than
GEN.	(3)	Mariout plant h
VARIETY	Poco	'Poco' most closely resembles 'California Mariout'; however, 'Poco' is 11 days ear 50% heading and averages 66 cm shorter in plant height than 'California Mariout'.
CERT.	BARLEY 8000092 Poco	' Poc 50%

ng to

'WestBred 501' is most similar to 'Gus' except 'WestBred 501' has a white (colorless) aleurone and heads 'Gus' has a blue aleurone. 3 to 4 days earlier than 'Gus'.

(*) 04/26/85 Western Plant Breeders, Inc.

8300004 WestBred 501

'Columbia' is most similar to 'Kombar'; however, the aleurone color of 'Columbia' is blue whereas the aleurone color of 'Kombar' is white (colorless). (*) 04/26/85 Western Plant Breeders, Inc. 8300106 Columbia

(*) 04/26/85 Western Plant Breeders, Inc.

WestBred Gustoe' is most similar to 'Gus' except 'WestBred Gustoe' heads 2 to 5 days later than 'Gus' and is 7 to 15 cm shorter than 'Gus'.

(3) 06/28/85 Wilbur-Ellis Co., Seed Division 8300037 Pilgrim

BEAN, FIELD

"high bush" types and average 13 cm taller than plants of 'Taylor Horticultural', which are classed as "stem bush" types. Pilgrim' is most similar to 'Taylor Horticultural'; however, plants of 'Pilgrim' are classified as

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8300107 WestBred Gustoe

NAME OF OMNER	Rogers Brothers Seed Co.
ISSUE	05/31/85
GEN.	
VARIETY	Garnet
CERT.	BEAN, FIELD 8300100

'Garnet' is most similar to 'Red Mexican UI-36'; however, 'Garnet' reaches seed maturity 4 days earlier than does 'Red Mexican UI-36'. Also, seed weight in 'Garnet' is 25 g/100 seed, compared to 31 g/100 seed for 'Red Mexican UI-36'.

(1) 05/31/85 Michigan Agric. Expt. Sta.

8300150 C-20

alpha and resistant to race delta whereas 'Fleetwood' is resistant to race alpha and susceptible to race 'C-20' is most similar to 'Fleetwood'; however, in Anthracnose reaction, 'C-20' is susceptible to race

04/26/85 Royal Sluis, Neth.

Ovation' is most similar to 'Nerina'; however, diameter of fresh pods at optimum harvest maturity is 1 mm larger in 'Ovation' than in 'Nerina'. Also, 'Ovation' averages 4 days later from sowing to first open flower than 'Nerina'.

04/26/85 Musser Seed Co., Inc.

8200145 Bush Kentucky Wonder 125

'Bush Kentucky Wonder 125' is most similar to 'Greencrop'; however, 'Bush Kentucky Wonder 125' is resistant to bean common mosaic virus race NY15, whereas 'Greencrop' is susceptible. Also 'Bush Kentucky Wonder 125' plants are 7.5-10.0 cm taller, and pod maturity is 4 days later than 'Greencrop'.

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3200132 Ovation

BEAN, GARDEN

~	06/28/85 Okla. Agric. Expt. Sta. & ARS, USDA
NAME OF OWNER	Expt
E OF	ric.
NAM	. Ag
	0k1a
I SSUE DATE	06/28/85
GEN.	(2)
VARIETY	JDAGRASS 3300171 Guymon
CERT.	BERMUDAGRASS 8300171

more winter hardy, has darker green leaves (medium dark green vs light green), has more pubescent leaves Guymon' is most similar to the California and Arizona common type bermudagrass; however, 'Guymon' is (copious vs sparse) and heavier weight seeds (3265 vs 4629 seeds/g) than does common bermudagrass.

Rijk Zwaan B.V., Neth. 06/28/85 8400044 Triton CAUL IFLOWER

'Triton' is most similar to 'Celesta'; however, 'Triton' matures 5 days later than 'Celesta' and has dark green leaves whereas 'Celesta' has gray-green leaves.

Rijk Zwaan B.V., Neth. 06/28/85 8400045 Senator

'Senator' is most similar to 'Celesta'; however, 'Senator' has 6 to 8 more leaves per plant than 'Celesta' and its leaves are dark green whereas 'Celesta' leaves are gray-green.

CELERY

06/28/85 Bud Antle, Inc.

James Abe' is most similar to 'Tall Utah 52-70R Improved'; however, 'James Abe' has darker green petioles (1438 vs 1458 RHS) than 'Tall Utah 52-70R improved'. (*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeder's seed.

10.11.00 Asylva Seed CO.
00/10/00
Dania Centro

'Menuet' most closely resembles 'Mini 93'; however, 'Menuet' is 105 heat units later to 115 tenderometer and reaches 80 percent full flower 4 days after 'Mini 93'. 'Envy' is most similar to 'Pomak' and '#8221 Early Perfection'; however, 'Envy' begins flowering at the 10th node whereas 'Pomak' begins flowering at the 16th node and 'Envy' can have 3 to 4 flowers per node whereas '#8221 Early Perfection' does not have more than 2 flowers per node. 06/28/85 Asgrow Seed Co. 8400094 Envy

06/28/85 Asgrow Seed Co. 8400103 Payload 'Payload' is most similar to 'Dawn' and 'Picardie'; however, 'Payload' is resistant to near wilt whereas 'Dawn' and 'Picardie' are susceptible.

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NAME OF OWNER	06/28/85 Asgrow Seed Co.	Elegance' is most similar to 'Mini'; however, 'Elegance' is leafless having only tendrils and stipules _t hereas 'Mini' has normal foliage with leaflets.	06/28/85 Asgrow Seed Co.	Vulcan' is most similar to 'Venus'; however, 'Vulcan' is leafless having only tendrils and stipules whereas 'Venus' has normal foliage with leaflets.
I SSUE DATE	06/28/85	egance' is	06/28/85	can' is le
GEN. (*)		'Elegance' is most similar to 'Mini'; however, 'El whereas 'Mini' has normal foliage with leaflets.		'Vulcan' is most similar to 'Venus'; however, 'Vul whereas 'Venus' has normal foliage with leaflets.
VARIETY	8400104 El e gance	gance' is most eas 'Mini' has	Vulcan	can' is most s eas 'Venus' ha
CERT.	PEA 8400104	'Eleç where	8400105 Vulcan	Vulc where

'Trek' is most similar to 'Galaxie'; however, 'Trek' is leafless having only tendrils and stipules whereas 'Galaxie' has normal foliage with leaflets.

06/28/85 Asgrow Seed Co.

RYEGRASS, PERENNIAL 8200043 Delray

04/26/85 Northrup King Co.

'Delray' is most similar to 'Pennfine'; however, 'Delray' has a shorter spike (11.9 vs 13.0 cm) and shorter glumes (8.0 vs 9.3 mm) than 'Pennfine' (*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeder's seed.

8400106 Trek

NAME OF OWNER	(3) 05/31/85 Agratech Seeds Inc.	GK-67' most closely resembles 'Hale 7'; however, 'GK-67' has brown pubescence whereas 'Hale 7' has gray oubescence.	(*) 05/31/85 Northrup King Co.	'S45-01' is most similar to 'Mitchell'; however, 'Mitchell' has tan pods whereas 'S45-01' has brown pods.	(*) 04/26/85 Minnesota Agricultural Experiment Station	'Dawson' is most similar to 'Hodgson 78'; however, 'Dawson' matures 4 to 5 days earlier than 'Hodgson 78' and has yellow hila whereas 'Hodgson 78' has buff hila.	(1) 04/26/85 Stanford Seed Co.	HT5203' is most similar to 'Essex'; however, 'HT5203' is resistant to soybean cyst nematode race 3 whereas 'Essex' is susceptible.	(1) 04/26/85 Stanford Seed Company	'HT4203' is most similar to 'Falcon'; however, 'HT4203' is resistant to soybean cyst nematode, races 3 and 4 whereas 'Falcon' is susceptible.	(*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeder's seed.
ISSUE DATE	05/31/85	'GK-67' r	05/31/85	'Mitchell'	04/26/85	, 'Dawson' buff hila	04/26/85	5203' is r	04/26/85	T4203' is	fied seed. ed beyond
:TY GEN.	(3)	losely resembles 'Hale 7'; however,	(*)	ost similar to 'Mitchell'; however,	(*)	'Dawson' is most similar to 'Hodgson 78'; however, 'Dawson' 78' and has yellow hila whereas 'Hodgson 78' has buff hila.	(1)	'HT5203' is most similar to 'Essex'; however, 'HT' whereas 'Essex' is susceptible.	(1)	'HT4203' is most similar to 'Falcon'; however, 'H' and 4 whereas 'Falcon' is susceptible.	To be sold by variety name only as a class of certified seed. A number with the number of generations of certified seed permitted beyond breeder's seed.
VARIETY	GK-67	'GK-67' most c pubescence.	S45-01	01' is mo	Dawson	son'is mo and has ye	HT5203	203' is mo eas 'Essex	HT4203	1203' is mo 4 whereas	sold by va
CERT.	SOYBEAN 8200142 GK-67	- Y9'	8300090 S45-01	'S45- pods.	8400053 Dawson	'Daw 78'	8400069 HT5203	' HT5 wher	8400070 HT4203	'HT4 and	(*) To be the nu

CERT.	VARIETY	GEN.	ISSUE	NAME OF OWNER
SOYBEAN 8400073 9441	9441		04/26/85	04/26/85 Pioneer Hi-Bred International, Inc.
1944	'9441' is most similar to '3981'; however, '9441' matures 3 days later than '3981'.	ver, '9441'	matures 3	days later than '3981'.
8400074 9292	9292		04/26/85	04/26/85 Pioneer Hi-Bred International, Inc.
'927 fewe	'9272' is most similar to '9271'; howe fewer etched seeds than '9271'.	ver, '9272'	matures 3	9272' is most similar to '9271'; however, '9272' matures 3 days later than '9271' and has 40 percent fewer etched seeds than '9271'.
8400075 9271	9271		04/26/85	04/26/85 Pioneer Hi-Bred International, Inc.
'927 seed low	'9271' is most similar to 'Century' an seeds have black hila and '9271' seedc low peroxidase activity.	d 'S1474'; k oats have hi	owever, 'g	'9271' is most similar to 'Century' and 'S1474'; however, '9271' seeds have brown hila whereas 'Century' seeds have black hila and '9271' seedcoats have high peroxidase activity whereas 'S1474' seedcoats have low peroxidase activity.
8400077	8400077 Coker 425	(3)	(3) 05/31/85 CR Seeds	CR Seeds
'Cok wher	'Coker 425' most closely resembles 'Essex'; howev whereas 'Essex' has gray pubescence and buff hila	sex'; howeve d buff hila.	er, 'Coker	'Coker 425' most closely resembles 'Essex'; however, 'Coker 425' has tawny pubescence and black hila whereas 'Essex' has gray pubescence and buff hila.
8400078	8400078 Coker 485	(3)	(3) 05/31/85 CR Seeds	CR Seeds
Cok has	'Coker 485' most closely resembles 'Fo has white flowers.	rrest'; howe	ver, 'Cok	'Coker 485' most closely resembles 'Forrest'; however, 'Coker 485' has purple flowers whereas 'Forrest' nas white flowers.
(*) To be the nu	To be sold by variety name only as a class of certified seed. A number with the number of generations of certified seed permitted beyond breeder's seed.	ss of certifeed permitte	fied seed.	(*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeder's seed.

NAME OF OWNER	06/28/85 Asgrow Seed Co.	most closely resembles 'Davis'; however, 'A6381' has purple flowers whereas 'Davis' has white	06/28/85 Asgrow Seed Co.	'A6242' most closely resembles 'Tracy M' and 'A6520'; however, 'A6242' has brown pods and is susceptible to <u>Phytophthora</u> rot whereas 'Tracy M' and 'A6520' have tan pods and are resistant to <u>Phytophthora</u> rot.	06/28/85 Asgrow Seed Co.
GEN. ISSUE (*) DATE	06/28/85	A6381' has	06/28/85	0'; howeve have tan p	06/28/85
GEN.		; however, '		M' and 'A652 and 'A6520'	
VARIETY	FAN 8400095 A6381	A6381' most closely resembles 'Davis' flowers.	8400096 A6242	A6242' most closely resembles 'Tracy loop Phytophthora rot whereas 'Tracy M'	8400097 A5980
CERT.	SOYBEAN 840009	'A{ f1c	8400096	'AK to	8400097

A5980' most closely resembles 'Bedford' and 'A5939'; however, 'A5980' has purple flowers whereas Bedford' has white flowers and 'A5980' is susceptible to Phytophthora rot, races 1 and 7 whereas 06/28/85 Northrup King Co. A5939' is resistant. 8400122 S42-40

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'S42-40' is most similar to 'A4268'; however, 'S42-40' has purple flowers whereas 'A4268' has white

flowers.

NAME OF OWNER	04/26/85 Campbell Soup Company Campbell Institute for Research and Technology	'Easy Harvest' is most similar to 'Campbell 37'; however, fruit weight for 'Easy Harvest' averages 65 g whereas for 'Campbell 37' it averages 86 g. Also, 'Easy Harvest' is resistant to Verticillium wilt race 1 whereas 'Campbell 37' is susceptible.	06/28/85 Petoseed Co., Inc.	Colorado' is most similar to 'Peto 98'; however, fruits of 'Rio Colorado' average 8-13 g heavier fruits of 'Peto 98'. Also, soluble solids of ripe fruits are significantly higher in 'Rio Colorado'
GEN. ISSUE (*) DATE	04/26/85	owever, f 'Easy Ha	06/28/85	er, fruit: Tripe fru
GEN.		37'; h Also,		howev lids of
CERT. VARIETY NO.	romato 8300001 Easy Harvest	'Easy Harvest' is most similar to 'Campbell whereas for 'Campbell 37' it averages 86 g. I whereas 'Campbell 37' is susceptible.	8300035 Rio Colorado	'Rio Colorado' is most similar to 'Peto 98'; however, fruits of 'Rio Colorado' average 8-13 g heavier than fruits of 'Peto 98'. Also, soluble solids of ripe fruits are significantly higher in 'Rio Color

^{&#}x27;Easy Winner' is most similar to 'Easy Harvest'; however, 'Easy Winner' fruits mature 7-10 days earlier than fruits of 'Easy Harvest'. Also, fruits of 'Easy Winner' have thicker pericarp walls which average Campbell Institute for Research and 06/28/85 Campbell Soup Company Technology (5.50 Brix) than 'Peto 98' (4.70 Brix). 8400050 Easy Winner

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7.9 mm whereas pericarp walls of 'Easy Harvest' average 6.5 mm thick.

APRIL 1, 1985 TO JUNE 30, 1985 APPLICATIONS AMENDED

Information concerning the varieties below has been published previously in the Official Journal's list of "AppLICATIONS RECEIVED." During the examination process, the applicant requested this information to be amended as indicated below.

NAME OF APPLICANT	
GEN. APPL. (*) DATE	
VARIETY	
٠.	

8500056 SV 13 Variety name changed from 'J & S 8513' TO 'SV 13'. 8500075 S V 93

03/04/85 J & S Research Company, Inc.

01/31/85 J & S Research Company, Inc.

Variety name changed from 'J & S 8593' TO 'SV 93'

SOYBEAN

8500009 RA-452

8500008 RA-451 Name of applicant changed from Ring Around Products, Inc., to Rohm and Haas Seeds, Inc.

Name of applicant changed from Ring Around Products, Inc., to Rohm and Haas Seeds, Inc. 10/10/84 Rohm and Haas Seeds, Inc.

Name of applicant changed from Ring Around Products, Inc., to Rohm and Haas Seeds, Inc. 10/10/84 Rohm and Haas Seeds, Inc. 8500010 RA-405

^(*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeders seed. < > Identifies temporary designations.

CERTIFICATES AMENDED APRIL 1, 1985 TO JUNE 30, 1985

The following certificates have been amended in accordance with sections 180.103, 180.122, and 180.130 of the Regulations and Rules of Practice under the Plant Variety Protection Act.

1								
GEN. ISSUE NAME OF OWNER (*) DATE	RDEN 1029 Sunrise Name of owner changed from Keystone Seed Co. to Sunseeds, A Division of Agrigenetics.	030 Lake Shasta Name of owner changed from Keystone Seed Co. to Sunseeds, A Division of Agrigenetics.	031 Lake Erie Name of owner changed from Keystone Seed Co. to Sunseeds, A Division of Agrigenetics.	09/30/74 Sunseeds, A Division of Agrigenetics Name of owner changed from Keystone Seed Co. to Sunseeds, A Division of Agrigenetics.	05/21/74 Sunseeds, A Division of Agrigenetics Name of owner changed from Keystone Seed Co. to Sunseeds, A Division of Agrigenetics.	02/28/74 Sunseeds, A Division of Agrigenetics Name of owner changed from Keystone Seed Co. to Sunseeds, A Division of Agrigenetics.	Lake Geneva of owner changed from Keystone Seed Co. to Sunseeds, A Division of Agrigenetics.	07/26/74 Sunseeds, A Division of Agrigenetics Name of owner changed from Keystone Seed Co. to Sunseeds, A Division of Agrigenetics.
# E	\$	\$	\$	ţ	\$	to	\$	ţ
	Seed Co.	Seed Co.	Seed Co.	Seed Co.	Seed Co.	Seed Co.	Seed Co.	Seed Co.
	Keystone	Keystone	Keystone	Keystone	Keystone	Keystone	Keystone	Keystone
	from	From	from	from	From	from	from	from
VARIETY	Sunrise of owner changed	7100030 Lake Shasta Name of owner changed	7100031 Lake Erie Name of owner changed	Rebel of owner changed	7100034 Lake Superior Name of owner changed	Miami of owner changed	7200068 Lake Geneva Name of owner changed	Raider of owner changed
CERT.	BEAN, GARDEN 7100029 Sunrise Name of ownen	7100030 Name	7100031 Name	7100033 Rebel Name of ow	7100034 Name	7100036 Miami Name of ow	7200068 Name	7400069 Raider Name of own

^(*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeders seed. < > Identifies temporary designations.

CERTIFICATES AMENDED APRIL 1, 1985 TO JUNE 30, 1985

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----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------	------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------

Name of owner changed from Agrigenetics Corporation, Vegetable Products Group to Sunseeds, A Division of 01/26/78 Sunseeds, A Division of Agrigenetics 7600059 Lakeland Agrigenetics. Agrigenetics.

12/07/77 Sunseeds, A Division of Agrigenetics Name of owner changed from Agrigenetics Corporation to Sunseeds, A Division of Agrigenetics. 7600060 Green Genes

Name of owner changed from Agrigenetics Corporation, Vegetable Products Group to Sunseeds, A Division of 12/30/77 Sunseeds, A Division of Agrigenetics Agrigenetics. 7600061 Triumph

(*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the 07/26/77 Sunseeds, A Division of Agrigenetics Name of owner changed from Keystone Seed Co. to Sunseeds, A Division of Agrigenetics.

number of generations of certified seed permitted beyond breeders seed. < > Identifies temporary designations.

7700058 Conquest

The following certificates have been amended in accordance with sections 180.103, 180.122, and 180.130 of the Regulations and Rules of Practice under the Plant Variety Protection Act.

NAME OF OWNER	DDEN 145 Empress Jame of owner changed from Agrigenetics Corporation to Sunseeds, A Division of Agrigenetics.
I SSUE DATE	04/15/82 on to Suns
GEN.	Corporatic
	Agrigenetics
	ed from
ARIETY	. change
VARI	Empress of owner
CERT.	4, GARDEN 7900045 Name

BEAN

10/16/80 Sunseeds, A Division of Agrigenetics

0174 Profit Maker Name of owner changed from Agrigenetics Corporation, Vegetable Products Group to Sunseeds, A Division of 01/75 Broker's Choice Narigenetics Corporation, Vegetable Products Group to Sunseeds, A Division of Agrigenetics 04/28/83 Sunseeds, A Division of Agrigenetics 8000111 Keygold Norman Reystone Seed Co. to Sunseeds, A Division of A Norman of Owner changed from Keystone Seed Co. to Sunseeds, A Division of Agrigenetics. 8100175 Broker's Choice 8100174 Profit Maker Agrigenetics. Agrigenetics.

25

Name of owner changed from Agrigenetics Corporation, Vegetable Products Group to Sunseeds, A Division of 06/28/85 Rijk Zwaan B.V., Neth. Variety with temporary designation of Type 616 RZ named 'Senator' Agrigenetics. 8200007 Shannon 8400045 Senator CAULIFLOWER

< > Identifies temporary designations.

^(*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeders seed.

The following certificates have been amended in accordance with sections 180.103, 180.122, and 180.130 of the Boundar the Diant Variaty Destruction Act

Regulations	Regulations and Rules of Practice under the Plant Variety Protection Act.	riety	Protection	Act.
CERT.	VARIETY	GEN.	I SSUE DATE	NAME OF OWNER
COTTON 8100060 Name 111	0N 8100060 Germain's Acala GC-363 Name of owner changed from C. Harvey Campbel III to Germain's, Inc.	(*) 1, Jr.	03/24/83 ; David L.)060 Germain's Acala GC-363 Name of owner changed from C. Harvey Campbell, Jr.; David L. West; Kenneth L. Puryear; H. P. Anderson, III to Germain's, Inc.

0061 Germain's Acala GC-445 (*) 03/24/83 Germain's, Inc. Name of owner changed from C. Harvey Campbell, Jr.; David L. West; Kenneth L. Puryear; H. P. Anderson, 8100061 Germain's Acala GC-445 III, to Germains, Inc.

062 Germain's Acala GC-555 (*) 03/24/83 Germain's, Inc. Name of owner changed from C. Harvey Campbell, Jr.; David L. West; Kenneth L. Puryear; H. P. Anderson, 8100062 Germain's Acala GC-555 III, to Germain's, Inc. 0.016 Germain's Acala GC-510 (*) 03/24/83 Germain's, Inc. Name of owner changed from C. Harvey Campbell, Jr.; David L. West; Kenneth L. Puryear; H. P. Anderson, 8200166 Germain's Acala GC-510 III, to Germain's, Inc.

Name of owner changed from C. Harvey Campbell, Jr.; David L. West; Kenneth L. Puryear; H. P. Anderson, (*) 09/28/84 Germain's, Inc. 8400129 Germain's Acala GC-362 III, to Germain's Inc.

^(*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeders seed.

The following certificates have been amended in accordance with sections 180.103, 180.122, and 180.130 of the Regulations and Rules of Practice under the Plant Variety Protection Act.

Act.	NAME OF OWNER	
Protection	GEN. ISSUE (*) DATE	
ariety	GEN.	
Regulations and Kules of Practice under the Plant Variety Protection Act.		
and Kules of F	VARIETY	
Regulations	CERT.	

04/10/73 Sunseeds, A Division of Agrigenetics Name of owner changed from Keystone Seed Co. to Sunseeds, A Division of Agrigenetics. Picoverde 7300016

05/16/77 Sunseeds, A Division of Agrigenetics Name of owner changed from Keystone Seed Co. to Sunseeds, A Division of Agrigenetics. 7600052 Chapparal

053 Costaverde Narigenetics 08/24/77 Sunseeds, A Division of Agrigenetics Name of owner changed from Keystone Seed Co. to Sunseeds, A Division of Agrigenetics.

7600053 Costaverde

05/31/77 Sunseeds, A Division of Agrigenetics Name of owner changed from Keystone Seed Co. to Sunseeds, A Division of Agrigenetics. 08/24/77 Sunseeds, A Division of Agrigenetics 07/26/79 Sunseeds, A Division of Agrigenetics Name of owner changed from Keystone Seed Co. to Sunseeds, A Division of Agrigenetics. 7600054 Gustaverde 7600055 Mesaverde 7900067 Commander

Name of owner changed from Keystone Seed Co. to Sunseeds, A Division of Agrigenetics.

< > Identifies temporary designations.

^(*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeders seed.

CERTIFICATES AMENDED APRIL 1, 1985 TO JUNE 30, 1985

The following certificates have been amended in accordance with sections 180.103, 180.122, and 180.130 of the Regulations and Rules of Practice under the Plant Variety Protection Act.

CERT.	VARIETY	GEN. (*)	I SSUE DATE	NAME OF OWNER
0NION 7300001 Name Agri	N 7300001 Scanion Name of owner changed from Agrigenetics Corp Agrigenetics.	oration	.1/15/74 n, Vegetab	001 Scanion Name of owner changed from Agrigenetics Corporation, Vegetable Products Group to Sunseeds, A Division of Agrigenetics.
PEA 8300074 Sunset Name of of	04/30/84 Sunset Name of of owner changed from Agrigenetics Corporation to Sunseeds, a Division of Agrigenetics.	orpora	14/30/84 Lion to Su	04/30/84 Sunseeds, A Division of Agrigenetics Ition to Sunseeds, a Division of Agrigenetics.
SAFFLOWER 7700021 S-317 To be sold permitted	R 1021 S-317 To be sold by variety name only as a class of certified seed with 3 generations of certified seed permitted beyond breeder's seed.	(3) (f cert)5/11/78 ified seed	(3) 05/11/78 Seedtec International, Inc. certified seed with 3 generations of certified seed
SOYBEAN 7300054 Pod o	EAN 7300054 Mitchell Pod color was changed from brown to tan. Name of owner changed from Ring Around Products, Inc., to Rohm and Haas Seeds, Inc.	cts, I	10/30/74 nc., to Ro	10/30/74 Rohm and Haas Seeds, Inc. nc., to Rohm and Haas Seeds, Inc.
7500067 RA-526 Name of owne	067 RA-526 Name of owner changed from Ring Around Products, Inc., to Rohm and Haas Seeds, Inc.	cts, I	12/12/75 nc., to Ro	12/12/75 Rohm and Haas Seeds, Inc. nc., to Rohm and Haas Seeds, Inc.

^(*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeders seed. < > Identifies temporary designations.

CERTIFICATES AMENDED APRIL 1, 1985 TO JUNE 30, 1985

The following certificates have been amended in accordance with sections 180.103, 180.122, and 180.130 of the Regulations and Rules of Practice under the Plant Variety Protection Act.

GEN. ISSUE NAME OF OWNER (*) DATE	006 RA-501A Name of owner changed from Ring Around Products, Inc., to Rohm and Haas Seeds, Inc.	030 RA-401 Name of owner changed from Ring Around Products, Inc., to Rohm and Haas Seeds, Inc.	06/22/78 Rohm and Haas Seeds, Inc. Name of owner changed from Ring Around Products, Inc., to Rohm and Haas Seeds, Inc.	007 RA-480 Name of owner changed from Ring Around Products, Inc., to Rohm and Haas Seeds, Inc.	03/01/79 Rohm and Haas Seeds, Inc. Name of owner changed from Ring Around Products, Inc., to Rohm and Haas Seeds, Inc.	046 Mitchell 450 Name of owner changed from Ring Around Products, Inc., to Rohm and Haas Seeds, Inc.	03/26/81 RA-481 Name of owner changed from Ring Around Products, Inc., to Rohm and Haas Seeds, Inc.	07/31/80 Rohm and Haas Seeds, Inc. Name of owner changed from Ring Around Products, Inc., to Rohm and Haas Seeds, Inc.	(*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeders seed.
VARIETY	١ er changed from Ring Arou	er changed from Ring Arou	er changed from Ring Arou	er changed from Ring Arou	er changed from Ring Arou	11 450 er changed from Ring Arou	er changed from Ring Arou	er changed from Ring Arou	ariety name only as a cla ations of certified seed
CERT. VAR	SOYBEAN 7605006 RA-501A Name of owne	7800030 RA-401 Name of owne	7800031 RA-601 Name of owne	7900007 RA-480 Name of owne	7900008 RA-604 Name of owne	7900046 Mitchell 450 Name of owner chai	8000054 RA-481 Name of owne	8000093 RA-402 Name of owne	(*) To be sold by va number of genera < > Identifies tempo

The following certificates have been amended in accordance with sections 180.103, 180.122, and 180.130 of the Regulations and Rules of Practice under the Plant Variety Protection Act.

CERT.	VARIETY	GEN.	ISSUE NAME OF OWNER DATE
S OYBEAN 8100097 Name	097 RA-680 Name of owner changed from Ring Around Products, Inc., to Rohm and Haas Seeds, Inc.	cts, I	04/15/82 Rohm and Haas Seeds, Inc. nc., to Rohm and Haas Seeds, Inc.
8200160 Nam	8200160 RA-502 Name of owner changed from Ring Around Products, Inc., to Rohm and Haas Seeds, Inc.	cts, I	08/31/83 Rohm and Haas Seeds, Inc. nc., to Rohm and Haas Seeds, Inc.
8200161 Name	10/27/83 Rohm and Haas Seeds, In Name of owner changed from Ring Around Products, Inc., to Rohm and Haas Seeds, Inc.	cts, I	10/27/83 Rohm and Haas Seeds, Inc. nc., to Rohm and Haas Seeds, Inc.
8200162 Nam	8200162 Mitchell 410 Name of owner changed from Ring Around Products, Inc., to Rohm and Haas Seeds, Inc.	cts, I	10/27/83 Rohm and Haas Seeds, Inc. nc., to Rohm and Haas Seeds, Inc.
8200163 Nam	8200163 RA-403 seed s, In Name of owner changed from Ring Around Products, Inc., to Rohm and Haas Seeds, Inc.	cts, I	10/27/83 Rohm and Haas Seed s, Inc. nc., to Rohm and Haas Seeds, Inc.
8300075 Nam	8300075 RA-580 Name of owner changed from Ring Around Products, Inc., to Rohm and Haas Seeds, Inc.	cts, I	04/30/84 Rohm and Haas Seeds, Inc. nc., to Rohm and Haas Seeds, Inc.
SUNFLOWER 7900022 GSF-1 Name of ow	.R 1022 GSF-1 Name of owner changed form Guido Stagi Farms to Stagi & Scriven Farms, Inc.	to St	09/11/80 Mr. Robert Stagi agi & Scriven Farms, Inc.
(*) To be so number < > Identif	(*) To be sold by variety name only as a class of certified seed. A number number of generations of certified seed permitted beyond breeders seed.	rtifie d beyo	(*) To be sold by variety name only as a class of certified seed. A number within parentheses indicates the number of generations of certified seed permitted beyond breeders seed.

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APPLICATIONS ABANDONED, WITHDRAWN, DENIED, OR INELIGIBLE APPLICATIONS APRIL 1, 1985 TO JUNE 30, 1985

Applications Propagation o

cions for the varieties listed below cion of these varieties is no longer ed in this list may possibly be prote	are no longer beir prohibited by the cted under the Pa1	tions for the varieties listed below are no longer being considered for U.S. plant variety protection. Lion of these varieties is no longer prohibited by the U.S. Plant Variety Protection Act. Varieties ed in this list may possibly be protected under the Patent Act.
KIND	APPL.NO.	VARIETY
WHEAT, COMMON	8300020	Purcell

DESCRIPTION OF PUBLIC VARIETIES

In accordance with section 180.800 of the Plant Variety Protection Act, descriptions of "public varieties" voluntarily submitted on PVP objective description forms will be accepted for publication in the Official Journal. Publication of such descriptions in no way constitutes recognition of the variety as novel or entitles it to protection under the Plant Variety Protection Act.

On the following pages are descriptions of 4 tomato varieties developed and released by the North Carolina Agricultural Research Service, North Carolina State University, Raleigh, North Carolina. The "PV Number" assigned to each variety should not be construed as meaning the variety is protected under the PVP Act; it is merely the accession number of that variety in the Office's database of tomato variety descriptions.

Reactions of these varieties to diseases and disorders are indicated by the codes R for "resistant," S for susceptible, and NT for "not tested."

Requests for seed samples and further information about these cultivars should be directed to Dr. D.F. Bateman, Director, North Carolina Agricultural Research Service, Box 7601, Raleigh, NC 27695-7601.

Variety Name: 'Piedmont' PV Number: 8510002

An inbred line released as a cv. in the F7 generation. Stable and uniform in the F4-F6 generations [Exhibit A]. Differs from 'NC 50-7' in having the I-2 gene, which confers resistance to race 2 of Fusarium oxysporum f. lycopersici [Exhibit B].

Characteristics [from Exhibit C]:

AnthocyaninPresent	Fruit PoxR
Habit SeedlingNormal	Gold FleckS
Plant Height, cm105	GraywallR
Growth HabitDeterminate	ZipperingS
Plant FormNormal	Cucumber MosaicNT
Canopy SizeLarge	Curly TopNT
UprightnessSemi-erect	Potato-Y VirusNT
BranchingIntermediate	TMV Race 0NT
Basal BranchingAbsent	TMV Race 1NT
Vegetative Nodes7-10	TMV Race 2NT
Lower Infl.Nodes2	TMV Race 22NT
Upper Infl.Nodes2	Spotted WiltNT
Stem PubescenceSparse	Tomato YellowsNT
Leaf TypeTomato	Bacterial CankerNT
Leaf Morphology2	Bact. Soft RotNT
Leaf MarginsDeeply cut	Bacterial SpeckNT
Leaf RollingAbsent	
Leaf SurfaceSmooth	Bacterial SpotNT
	Bacterial WiltNT
Leaf PubescenceNormal	AnthracnoseNT
Inflor. TypeSimple	Pyrenochaeta RotNT
No. flowers/infl5	Collar Rot/Stem Canker.NT
Running Inflorescences.Absent	Early BlightNT
CalyxNormal	Fusarium Race 1R
Calyx Lobes:CorollaShorter	Fusarium Race 2R
Corolla ColorYellow	Fusarium Race 3NT
Style PubescenceSparse	Gray Leaf SpotNT
Anther MorphologyAll fused	Late Blight Race ONT
FasciationAbsent	Late Blight Race 1NT
Fruit ShapeFlattened globe	Leaf MoldNT
Fruit cross-sectionRound	Leaf Mold Race 1NT
Blossom EndFlat	Leaf Mold Race 2NT
Stem EndIndented	Leaf Mold Race 3NT
Pistil ScarIrregular	Nailhead SpotNT
Abscission LayerPresent	Septoria SpotNT
Fruit DetachmentPedicel joint	Target LeafspotNT
Pedicel Length, mm10	Verticillium Race 1R
Fruit Length, mm70	Verticillium Race 2S
Fruit Diameter, mm85	Colo. Potato BeetleNT
Fruit Weight, g234	So. Rootknot NematodeNT
No. of Locules5 or more	Spider MiteNT
Fruit SurfaceSmooth	Sugarbeet Army WormNT
Fruit Base ColorLight green	Flea BeetleNT
Fruit PatternUniform green	HornwormNT
Ripe Fruit ColorRed	FruitwormNT
Ripe Flesh ColorRed/Crimson	WhiteflyNT
Flesh UniformityUniform	OzoneNT
Gel ColorRed	Sulfur DioxideNT
Longitudinal RipeningUniform	pH of Ripe Fruit4.70
Centrifugal RipeningUniform	Titratable Acid x 10047
Epidermis ColorYellow	Sol.Solids x10053
Epidermis PeelingNormal	Fruit SeasonMedium
Epidermis TextureAverage	Relative MaturityMedium late
Pericarp Thickness, mm.6-9	CultureField
Stem Scar SizeMedium	UseFresh market
Fruit CorePresent	Use
	Machine HarvestNot adapted
Blossom End RotR	
Blotchy RipeningR	Region Adapt.#1Southeast
Fruit BurstingR	Region Adapt.#2Florida
CatfacingR	Similar VarietyNC 50-7
Fruit CrackingR	Pistillate ParentNCBC3-28-1-1
Concentric CrackingR	Pollen ParentNC 50-7
Radial CrackingR	
33	

Variety Name: 'Summit'	PV Number:	8510970
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An inbred line in the F7 generation. Single plant selection in F_2 through F5 generations, and bulk selection in F6 [Exhibit A]. Most similar to 'Flora-Dade', from which it differs in having larger fruit, later maturity, and a larger plant [Exhibit B].

AnthocyaninPresent	Fruit PoxR
Habit SeedlingNormal	Gold FleckR
Plant Height cm120	GraywallR
Growth HabitDeterminate	ZipperingR
Plant FormNormal	Cucumber MosaicNT
Canopy SizeLarge	Curly TopNT
UprightnessSemi-erect	Potato-Y VirusNT
BranchingIntermediate	TMV Race ONT
Basal BranchingAbsent	TMV Race 1NT
Vegetative Nodes7-10	TMV Race 2NT
Lower Infl.Nodes2	TMV Race 22NT
Upper Infl.Nodes2	Spotted WiltNT
Stem PubescenceSparse	Tomato YellowsNT
Leaf TypeTomato	Bacterial CankerNT
Leaf Morphology2	Bact. Soft RotNT
Leaf MarginsDeeply cut	Bacterial SpeckNT
Leaf RollingAbsent	Bacterial SpotNT
Leaf SurfaceSmooth	Bacterial WiltNT
Leaf PubescenceNormal	Other BacterialNT
Inflor. TypeSimple	AnthracnoseNT
No. flowers/infl5	Pyrenochaeta RotNT
Running Inflorescences.Occasional	Collar Rot/Stem Canker.NT
CalyxNormal	Early BlightNT
Calyx Lobes:CorollaShorter	Fusarium Race 1R
Corolla ColorYellow	Fusarium Race 2R
Style PubescenceSparse	Fusarium Race 3NT
Anther MorphologyAll fused	Gray Leaf SpotNT
FasciationAbsent	Late Blight Race ONT
Fruit ShapeGlobe	Late Blight Race 1NT
Fruit cross-sectionRound	Leaf MoldNT
Blossom EndFlat	Nailhead SpotNT
Stem EndIndented	Septoria SpotNT
Pistil ScarStellate	Target LeafspotNT
	Verticillium Race 1R
Abscission LayerAbsent	
Fruit DetachmentCalyx	Verticillium Race 2S
Fruit Length, mm70	Colo. Potato BeetleNT
Fruit Diameter, mm85	So. Rootknot NematodeNT
Fruit Weight, g254	Spider MiteNT
No. of Locules5 or more	Sugarbeet WormNT
Fruit SurfaceSmooth	Flea BeetleNT
Frt. Base ColorDark green	HornwormNT
Fruit PatternGreen-shouldered	FruitwormNT
Ripe Fruit ColorRed	WhiteflyNT
Ripe Flesh ColorRed/Crimson	OzoneNT
Flesh UniformityUniform	Sulfur DioxideNT
Gel ColorRed	pH of Ripe Fruit4.60
Longitudinal RipeningBlossom-to-stem	Titratable Acid x 10530
Centrifugal RipeningInside out	Soluble Solids x 10054
Epidermis ColorYellow	Fruit SeasonMedium
Epidermis PeelNormal	Relative MaturityMedium late
	CultureField
Epidermis TextureAverage	
Pericarp Thickness, mm.6-9	UseFresh market
Stem Scar SizeMedium	Machine HarvestNot adapted
Fruit CorePresent	Region Adapt.#1Southeast
Blossom End RotR	Region Adapt.#2Florida
Blotchy RipeningR	SynonymNC7993-5-39-
	1W-1R
Fruit BurstingR	SynonymSTEP 671
CatfacingR	Similar VarietyFlora-Dade
Concentric CrackR	Pistill. ParentNC76-1-47-
Radial CrackingS	1W-1W(F ₅)
· ·	Pollen ParentNC50-7 (F7)
34	

Variety Name: 'Wolfpack 1' PV Number: 8510971

An F_{11} developed by pedigree selection in F_2 and F_3 followed by single seed descent from F_4 through F_6 [Exhibit A].

Characteristics [from Exhibit C]:

Anthocyanin Present		
Growth Habit. Determinate Plant Form. Compact Clury Topp. NT Canopy Size. Medium Potato-Y Virus. NT Potato-Y Virus. NT Potato-Y Virus. NT Wace O. NT Wace O. NT Wace O. NT TW Race I. NT Tomato Vegetative Nodes. 2 TW Race I. NT Tomato Yellows. NT Stem Pubescence. Mod. hairy Bacterial Canker. NT Bacterial Soft Rot. NT Bacterial Soft Rot. NT Bacterial Soft Rot. NT Bacterial Soft Rot. NT Bacterial Spot. NT Bacterial Wilt. NT Onset of Rolling. Mid-season Leaf Surface. Rugose Pyrenochaeta Rot. NT Calf Yellow Spot. NT Bacterial Spot. NT Bact	AnthocyaninPresent	ZipperingNT
Growth Habit. Determinate Plant Form. Compact Clury Topp. NT Canopy Size. Medium Potato-Y Virus. NT Potato-Y Virus. NT Potato-Y Virus. NT Wace O. NT Wace O. NT Wace O. NT TW Race I. NT Tomato Vegetative Nodes. 2 TW Race I. NT Tomato Yellows. NT Stem Pubescence. Mod. hairy Bacterial Canker. NT Bacterial Soft Rot. NT Bacterial Soft Rot. NT Bacterial Soft Rot. NT Bacterial Soft Rot. NT Bacterial Spot. NT Bacterial Wilt. NT Onset of Rolling. Mid-season Leaf Surface. Rugose Pyrenochaeta Rot. NT Calf Yellow Spot. NT Bacterial Spot. NT Bact	Habit SeedlingNormal	PuffinessR
Plant Form		
Canopy Size. Medium Potato-Y Virus. NT	Plant FormCompact	
Uprightness. Semi-erect TMV Race 0. NT Pranching. Intermediate TWV Race 1. NT VW Race 2. NT Lower Infl.Nodes. 2 TWV Race 2. NT		
Branching. Intermediate Vegetative Nodes 7-10 Lower Infl.Nodes 2 Upper Infl.Nodes 2 Thy Race 2 NT TW Race 2 NT Thy Race 3 NT Thy Race 4 NT Thy Rac		
Vegetative Nodes. 7-10 Lower Infl.Nodes. 2 Stem Pubescence. Mod. hairy Leaf Type Tomato Leaf Morphology. 2 Leaf Margins Shallowly cut Leaf Rolling Slight Onset of Rolling NT Leaf Norface Rugose Leaf Pubescence Normal Onset flowers/infl 5 Early Blight NT Running Inflorescences. Absent Calyx Lobes:Corolla Shorter Calyx Lobes:Corolla Shorter Corolla Color Yellow Anther Morphology All fused Late Blight Race 0 NT Fusarium Race 2 NT Late Blight Race 0 NT Late Blight Race 0 NT Late Blight Race 0 NT Late Blight Race 1 NT Leaf Mold Race 1 NT Pistil Scar Dot Abscission Layer Present Septoria Spot NT Pedicel Length, mm. 8 Fruit Weight, g 72 Verticillium Race 2 NT Colo. Potato Beetle NT Verticillium Race 2 NT Colo. Potato Beetle NT Fulworm NT Fula Bursting Normal Epidermis Texture Average Soluble Solidas	Dyanching	
Upper Infl.Nodes2Tomato YellowsNTStem PubescenceMod. hairyBacterial CankerNTLeaf Morphology2Bacterial SpockNTLeaf MarginsShallowly cutBacterial SpockNTLeaf RollingSlightBacterial SpockNTOnset of RollingMid-seasonAnthracnoseNTLeaf SurfaceRugosePyrenochaeta RotNTLeaf PubescenceNormalCollar Rot/Stem CankerNTNo. flowers/infl5Early BlightNTRunning InflorescencesAbsentFusarium Race2NTCalyxNormalFusarium Race3NTCorolla ColorYellowGray Leaf SpotNTAnther MorphologyAll fusedFusarium Race3NTFasciationAbsentLate Blight Race0NTFruit ShapeBlocky-roundLeaf Mold Race1NTFruit ShapeBlocky-roundLeaf Mold Race1NTFruit ScarDotNailhead SpotNTNTAbscission LayerPresentSeptoria SpotNTNTPedicel Lengthmm8Target Leaf SpotNTFruit Weight72Yerticillium Race1NTNo. of Locules2Yerticillium Race1NTFruit Sase ColorLt. gray-greenRedNTYerticillium RaceNTFruit SessonRedNTSugarbeet Army WormNTEnj	Variation Nadar 7 10	
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Variety Name: 'Wolfpack 2' PV Number: 8510792

An F_{11} derived from a cross between 'Fla 180' and 'Dorchester', followed by pedigree selection in the F_2 and F_3 , and single-seed descent from F_4 to F_6 [Exhibit A]. Similar to 'Wolfpack 1' but is approx. 4 days later, has a smaller fruit size, and is somewhat more viny in plant habit [Exhibit B].

Characteristics [from Exhibit C]:

AnthocyaninPresent Habit SeedlingNormal	ZipperingNT PuffinessR
Growth HabitDeterminate	Cucumber MosaicNT
Plant FormCompact	Curly TopNT
Canopy SizeMedium	Potato-Y VirusNT
UprightnessSemi-erect	TMV Race ONT
BranchingIntermediate	TMV Race 1NT
Vegetative Nodes7-10	TMV Race 2NT
Lower Infl.Nodes2	TMV Race 2 ² NT
Upper Infl.Nodes2	Spotted WiltNT
Stem PubescenceMod. hairy	Tomato YellowsNT
Leaf TypeTomato	Bacterial CankerNT
Leaf Morphology2	Bacterial Soft RotNT
Leaf MarginsShallowly cut	Bacterial SpeckNT
Leaf RollingSlight Onset of RollingEarly-season	Bacterial SpotNT Bacterial WiltNT
Leaf SurfaceRugose	AnthracnoseNT
Leaf PubescenceNormal	Pyrenochaeta RotNT
No. flowers/infl5	Collar rot/Stem cankerNT
Running InflorescencesAbsent	Early BlightNT
CalyxNormal	Fusarium Race 1R
Calyx Lobes:CorollaShorter	Fusarium Race 2NT
Corolla ColorYellow	Fusarium Race 3NT
Anther MorphologyAll fused	Gray Leaf SpotNT
FasciationAbsent	Late Blight Race ONT
Fruit ShapeBlocky round	Late Blight Race 1NT
Fruit cross-sectionRound	Leaf MoldNT
Blossom EndIndented	Leaf Mold Race 1NT
Stem EndFlat	Leaf Mold Race 2NT
Pistil Scar	Leaf Mold Race 3NT Nailhead SpotNT
Abscission LayerPresent Pedicel Length, mm8	Septoria SpotNT
Fruit Weight, g63	Target LeafspotNT
No. of Locules3 and 4	Verticillium Race 1NT
Fruit SurfaceSmooth	Verticillium Race 2NT
Fruit Base ColorLt. gray-green	Colo. Potato BeetleNT
Fruit PatternUniform green	So. Rootknot NematodeNT
Ripe Fruit ColorRed	Spider MiteNT
Ripe Flesh ColorRed/Crimson	Sugarbeet WormNT
Flesh UniformityUniform	Flea BeetleNT
Gel ColorRed	HornwormNT
Longitudinal RipeningUniform	FruitwormNT
Centrifugal RipeningUniform Epidermis ColorYellow	WhiteflyNT
Epidermis PeelingNormal	OzoneNT Sulfur DioxideNT
Epidermis TextureAverage	pH of Ripe Fruit4.40
Stem Scar SizeSmall	Soluble Solids x1060
Fruit CoreAbsent	Seed-onceover harvest121 days
Blossom End RotR	Fruit SeasonShort
Blotchy RipeningR	Relative MaturityMedium late
Fruit BurstingR	CultureField
CatfacingR	UseWhole pack
Fruit CrackingR	Machine HarvestAdapted
Concentric CrackR	Region AdaptationSoutheast
Radial CrackingR	Synonym
Fruit PoxNT Gold FleckNT	Similar VarietyWolfpack 1 Pistill. ParentFla 180
GraywallNT	Pollen ParentDorchester
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